

Name: _____

Date: _____

PCW__09__22 Coordinate transformations v16

Question 1

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = \frac{f[3(x+5)]}{4} + 2$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

Question 2

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = \frac{f\left[\frac{x-6}{7}\right]}{4} - 9$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

Question 3

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = 7 \cdot (f[9(x-5)] - 6)$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

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Question 4

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = 4 \cdot f\left[\frac{x+7}{2}\right] - 9$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

Question 5

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = \frac{f\left[\frac{x}{4} + 2\right] + 9}{8}$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

Question 6

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = 7 \cdot (f[2x - 5] + 4)$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.